

R6 SERIES

THREE PHASE INVERTER



R6-3K-T2 | R6-4K-T2 | R6-5K-T2 | R6-6K-T2
R6-8K-T2 | R6-10K-T2 | R6-10K-T2-B
R6-12K-T2 | R6-15K-T2

AFCI AFCI (Optional)

16A String current up to 16A

 Max. Efficiency 98.6%

 Built-in AC & DC SPD

110% 110% AC overloading

 24/7 load monitoring (Optional)

MODEL	R6-3K-T2	R6-4K-T2	R6-5K-T2	R6-6K-T2	R6-8K-T2	R6-10K-T2	R6-10K-T2-B	R6-12K-T2	R6-15K-T2
DC Input									
Max. PV Array Power [Wp]@ STC	4500	6000	7500	9000	12000	15000	15000	18000	22500
Max. DC Voltage [V]	1100								
MPPT Voltage Range [V]	160 ~ 950								
Rated DC Voltage [V]	600								
Start Voltage [V]	180								
Min. DC Voltage [V]	150								
Max. DC Input Current [A]	16/16								
Max. DC Short Circuit Current [A]	19.2/19.2								
No. of Strings per MPPT	1/1								
No. of MPPT	2								
DC Switch	Integrated								
AC Output									
Rated AC Power [W]	3000	4000	5000	6000	8000	10000	10000	12000	15000
Max. Apparent Power*[VA]	3300	4400	5500	6600	8800	11000	10000	13200	15000
Rated Output Current [A]@ 230Vac	4.4	5.8	7.3	8.7	11.6	14.5	14.5	17.4	21.8
Max. Output Current [A]	5.0	6.7	8.4	10.0	13.4	16.7	15.2	20.0	22.8
Rated AC Voltage/ Range [V]	3L+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/ 312 ~ 485								
Rated Output Frequency/ Range [Hz]	50,60/ 45 ~ 55,55 ~ 65								
Power Factor [cos φ]	0.8 leading ~ 0.8 lagging								
Total Harmonic Distortion [THDI]	<3%								
Efficiency									
Max. Efficiency	98.2%	98.5%	98.5%	98.5%	98.6%	98.6%	98.6%	98.6%	98.6%
Euro Efficiency	97.8%	98.2%	98.2%	98.2%	98.3%	98.3%	98.3%	98.4%	98.4%
Protection									
Internal Overvoltage Protection	Integrated								
DC Insulation Resistance Detection	Integrated								
Grid Monitoring	Integrated								
GFCI Monitoring	Integrated								
DCI Monitoring	Integrated								
AC Short Circuit Current Protection	Integrated								
AC Grounding Detection	Integrated								
DC Surge Protection	Integrated								
AC Surge Protection	Integrated								
Anti-islanding Protection	Integrated								
AFCI Protection	Optional								
Interface									
DC Connection	MC4/ H4								
AC Connection	Plug-in Connector								
Display	LED+APP								
Communication Port	RS232(USB) +RS485(RJ45) +DRM								
Communication	Wi-Fi/ Ethernet/ 4G(Optional)								
Load Monitoring	24/7 (Optional)								
General Parameters									
Topology	Non-isolated								
Consumption at Night [W]	<1								
Operating Temperature Range	-40°C to +60°C (45°C to 60°C with derating)								
Cooling Method	Natural Convection								
Ambient Humidity	0-100% Non-condensing								
Altitude	4000m (>3000m Power Derating)								
Noise [dBA]	<35								
Ingress Protection	IP65								
Mounting	Wall Mounting								
Dimensions [H*W*D][mm]	391*532*190								
Weight [kg]	15								
Warranty [Year]	5/10/15/20								
Applicable Standard	EN 62109-1/2, EN 61000-6-1/2/3/4, EN 50438, EN 50549, C10/11, IEC 62116, IEC 61727, RD 1699, RD 413, UNE 206006, UNE 206007, NTS, CEI 0-16, CEI 0-021, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1								

Remarks: * According to C10/C11, Max. Apparent Power= Rated AC Power.

R6 SERIES

THREE PHASE INVERTER



R6-15K-T2-32 | R6-17K-T2-32 | R6-20K-T2-32
R6-22K-T2-32 | R6-25K-T2-32

AFCI AFCI (Optional)

16A String current up to 16A

 Max. Efficiency 98.8%

 Built-in AC & DC SPD

110% 110% AC overloading

 24/7 load monitoring (Optional)

MODEL	R6-15K-T2-32	R6-17K-T2-32	R6-20K-T2-32	R6-22K-T2-32	R6-25K-T2-32
DC Input					
Max. PV Array Power [Wp]@STC	22500	25500	30000	33000	37500
Max. DC Voltage [V]	1100				
MPPT Voltage Range [V]	180 ~ 1000				
Rated DC Voltage [V]	600				
Start Voltage [V]	200				
Min. DC Voltage [V]	180				
Max. DC Input Current [A]	32/32				
Max. DC Short Circuit Current [A]	38.4/38.4				
No. of Strings per MPPT	2/2				
No. of MPPT	2				
DC Switch	Integrated				
AC Output					
Rated AC Power [W]	15000	17000	20000	22000	25000
Max. Apparent Power*[VA]	16500	18700	22000	24200	25000
Rated Output Current [A]@230Vac	21.7	24.6	29	31.9	36.2
Max. Output Current [A]	25	28.3	33.3	36.7	37.9
Rated AC Voltage/Range [V]	3L+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/312 ~ 485				
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65				
Power Factor [cos φ]	0.8 leading ~ 0.8 lagging				
Total Harmonic Distortion [THDi]	<3%				
Efficiency					
Max. Efficiency	98.8%				
Euro Efficiency	98.5%				
Protection					
Internal Overvoltage Protection	Integrated				
DC Insulation Resistance Detection	Integrated				
Grid Monitoring	Integrated				
GFCI Monitoring	Integrated				
DCI Monitoring	Integrated				
AC Short Circuit Current Protection	Integrated				
AC Grounding Detection	Integrated				
DC Surge Protection	Integrated				
AC Surge Protection	Integrated				
Anti-islanding Protection	Integrated				
AFCI Protection	Optional				
Interface					
DC Connection	MC4/H4				
AC Connection	Plug-in Connector				
Display	LED+APP				
Communication Port	RS232(USB)+RS485(RJ45)+DRM				
Communication	Wi-Fi/Ethernet/4G(Optional)				
Load Monitoring	24/7 (Optional)				
General Parameters					
Topology	Non-isolated				
Consumption at Night [W]	<1				
Operating Temperature Range	-40°C to +60°C (45°C to 60°C with derating)				
Cooling Method	Intelligent Fan cooling				
Ambient Humidity	0-100% Non-condensing				
Altitude	4000m (>3000m Power Derating)				
Noise [dBA]	<50				
Ingress Protection	IP65				
Mounting	Wall Mounting				
Dimensions [H*W*D] [mm]	429.5*558*234.5				
Weight [kg]	22.5				
Warranty [Year]	5/10/15/20				
Applicable Standard	EN 62109-1/2, EN 61000-6-1/2/3/4, EN 50438, EN 50549, C10/11, IEC 62116, IEC 61727, RD 1699, RD 413, UNE 206006, UNE 206007, NTS, CEI 0-16, CEI 0-021, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1				

Remarks: *According to C10/C11, Max. Apparent Power= Rated AC Power.

R6 SERIES

THREE PHASE INVERTER



R6-25K-T3-32 | R6-30K-T3-32 | R6-33K-T3-32
 R6-36K-T3-32 | R6-36K-T4-32 | R6-40K-T4-32
 R6-50K-T4-32

AFCI AFCI (Optional)

16A String current up to 16A

 Max. Efficiency 98.8%

 Built-in AC & DC SPD

110% 110% AC overloading

 24/7 load monitoring (Optional)

MODEL	R6-25K-T3-32	R6-30K-T3-32	R6-33K-T3-32	R6-36K-T3-32	R6-36K-T4-32	R6-40K-T4-32	R6-50K-T4-32
DC Input							
Max. PV Array Power [Wp]@STC	37500	45000	49500	54000	54000	60000	75000
Max. DC Voltage [V]	1100						
MPPT Voltage Range [V]	180 ~ 1000						
Rated DC Voltage [V]	600						
Start Voltage [V]	200						
Min. DC Voltage [V]	180						
Max. DC Input Current [A]	32/32/32			32/32/32/32			
Max. DC Short Circuit Current [A]	38.4/38.4/38.4			38.4/38.4/38.4/38.4			
No. of Strings per MPPT	2/2/2			2/2/2/2			
No. of MPPT	3			4			
DC Switch	Integrated						
AC Output							
Rated AC Power [W]	25000	30000	33000	36000	36000	40000	50000
Max. Apparent Power** [VA]	25000	33000	36300	39600	39600	44000	50000
Rated Output Current [A]@230Vac	36.3	43.5 ²	47.8	52.2	52.2	58	72.5
Max. Output Current [A]	37.9	50	55	60	60	66.7	75.8
Rated AC Voltage/Range [V]	3L+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/312 ~ 485						
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65						
Power Factor [cos φ]	0.8 leading ~ 0.8 lagging						
Total Harmonic Distortion [THDI]	<3%						
Efficiency							
Max. Efficiency	98.8%						
Euro Efficiency	97.5%						
Protection							
Internal Overvoltage Protection	Integrated						
DC Insulation Resistance Detection	Integrated						
Grid Monitoring	Integrated						
GFCI Monitoring	Integrated						
DCl Monitoring	Integrated						
AC Short Circuit Current Protection	Integrated						
AC Grounding Detection	Integrated						
DC Surge Protection	Integrated						
AC Surge Protection	Integrated						
Anti-islanding Protection	Integrated						
AFCI Protection	Optional						
Interface							
DC Connection	MC4/H4						
AC Connection	Plug-in Connector						
Display	LED+APP						
Communication Port	RS232(USB)+RS485(RJ45)+DRM						
Communication	Wi-Fi/Ethernet/4G(Optional)						
Load Monitoring	24/7 (Optional)						
General Parameters							
Topology	Non-isolated						
Consumption at Night [W]	<1						
Operating Temperature Range	-40°C to +60°C (45°C to 60°C with derating)						
Cooling Method	Intelligent Fan cooling						
Ambient Humidity	0~100% Non-condensing						
Altitude	4000m (>3000m Power Derating)						
Noise [dBA]	<50						
Ingress Protection	IP65						
Mounting	Wall Mounting						
Dimensions [H*W*D] [mm]	473*659.4*240						
Weight [kg]	35			37		37.5	
Warranty [Year]	5/10/15/20						
Applicable Standard	EN 62109-1/2, EN 61000-6-1/2/3/4, EN 50438, EN 50549, C10/11, IEC 62116, IEC 61727, RD 1699, RD 413, UNE 206006, UNE 206007, NTS, CEI 0-16, CEI 0-021, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1						

Remarks: **According to C10/C11, Max. Apparent Power= Rated AC Power

**According to AS4777.2, Rated AC Current for R6-30K-T3-32 is 43.4A